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United States Patent [19]

Krall et al.

[11] **Patent Number:** 6,037,366[45] **Date of Patent:** Mar. 14, 2000[54] **COMPOSITION FOR CREATING VASCULAR OCCLUSIONS**[75] **Inventors:** Robert E. Krall, Alpine; Charles W. Kerber; Kimberly Knox, both of LaMesa, all of Calif.[73] **Assignee:** Prohold Medical Technologies, Inc., El Cajon, Calif.[21] **Appl. No.:** 09/151,621[22] **Filed:** Sep. 11, 1998**Related U.S. Application Data**[60] **Provisional application No.** 60/058,510, Sep. 11, 1997.[51] **Int. Cl.⁷** A61K 31/275; A61K 31/12; A61K 31/05; A61K 33/24[52] **U.S. Cl.** 514/527; 514/526; 514/690; 514/730; 514/558; 514/560; 514/824; 514/834; 514/930; 514/944; 514/970; 424/601; 424/605; 424/649; 424/78.08; 424/78.31; 424/78.37; 604/49; 604/53[58] **Field of Search** 514/526, 527, 514/690, 730, 558, 560, 824, 834, 930, 944, 970; 424/601, 605, 649, 78.08, 78.31, 78.37; 604/49, 53[56] **References Cited****U.S. PATENT DOCUMENTS**

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Primary Examiner—John Pak*Attorney, Agent, or Firm*—Campbell & Flores LLP[57] **ABSTRACT**

A composition including 2-hexyl cyanoacrylate and gold is useful in treating arteriovenous malformations (AVMs) and other body lumens to be blocked.

5 Claims, No Drawings

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